INTERNATIONAL SEARCH REPORT



A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H01M8/02 C08K C08K7/06 C08K7/24 C08K3/38 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) HO1M C08K IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Category * Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. P,X WO 2004/059663 A (SHOWA DENKO K. K; 1-16 MORITA, TOSHIO; YAMAMOTO, RYUJI; TOKI, MASAHARU) 15 July 2004 (2004-07-15) claims 1-20 X EP 0 337 487 A (SHOWA DENKO KABUSHIKI 1 KAISHA) 18 October 1989 (1989-10-18) abstract; claims 1-6 Y PATENT ABSTRACTS OF JAPAN 1 - 16vol. 2000, no. 15 6 April 2001 (2001-04-06) & JP 2000 348739 A (MITSUBISHI PLASTICS IND LTD), 15 December 2000 (2000-12-15) abstract Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "O" document referring to an oral disclosure, use, exhibition or document published prior to the International filing date but later than the priority date claimed '&' document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 5 April 2005 22/04/2005 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Bergmans, K

2

INTERNATIONAL SEARCH REPORT

Intern: al Application No PCT/JP2004/018448

| C.(Continuat | tion) DOCUMENTS CONSIDERED TO BE RELEVANT | | | |
|--------------|--|-----------------------|--|--|
| Category ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. | | |
| Y | WO 02/49412 A (SHOWA DENKO K.K; MORITA, TOSHIO; INOUE, HITOSHI; YAMAMOTO, RYUJI) 27 June 2002 (2002-06-27) abstract; claims 1-25 | 1-16 | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

2

INTERNATIONAL SEARCH REPORT

Information on patent family members

Internation No
PCT/JP2004/018448

| 1 | Patent document cited in search report | | Publication date | | Patent family member(s) | Publication date |
|----|--|---|---------------------|--|--|--|
| WO | 2004059663 | A | 15-07-2004 | WO JP | 2004059663 A1 2004221071 A | 15-07-2004 05-08-2004 |
| EP | 0337487 | A | 18-10-1989 | JP JP EP US | 1263156 A 2603511 B2 0337487 A1 5213736 A | 19-10-1989 23-04-1997 18-10-1989 25-05-1993 |
| JP | 2000348739 | Α | 15-12-2000 | NONE | | |
| WO | 0249412 | A | 27-06-2002 | AU CA CN EP WO JP US | 1950702 A 2431727 A1 1481454 A 1343410 A1 0249412 A1 2002266170 A 2004036060 A1 02065200 A2 | 01-07-2002 27-06-2002 10-03-2004 17-09-2003 27-06-2002 18-09-2002 26-02-2004 22-08-2002 |